PATENT APPLICATION

03500.018213

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

in re Ap	oplication of:)	E	
SAKAE DUDA ET AL.		:)	Examiner: Callie Si	
Application No.: 10/538,853		;)	Group Art Unit: 1	714
Filed: J	une 14, 2005)		
For:	BLOCK POLYMER, POLYMER-CONTAINING COMPOSITION CONTAINING THE SAME, INK COMPOSITION AND LIQUID APPLYING METHOD AND LIQUID APPLYING APPARATUS UTILIZING THE POLYMER-CONTAINING COMPOSITION	·) :) :) :) :) :) :) :) :) :)	June 1, 2006	

Mail Stop Amendment Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

SUBMISSION OF FOREIGN OFFICIAL LETTER

Sir:

Applicants request that the enclosed International Preliminary Report on Patentability, which was issued in a counterpart foreign application, be placed in the official file of this application.

EP-A-0 670 222, EP-A-0 819 538, and EP-A-1 243 624, which are cited in the Official Letter, were previously cited in the Information Disclosure Statement filed on June 14, 2005, and therefore are not being submitted herewith.

It is believed that no fee is due in connection with the filing of this paper. If a fee is determined to be due, it may be charged to Deposit Account No. 06-1205.

Applicants' undersigned attorney may be reached in our Washington D.C. office by telephone at (202) 530-1010. All correspondence should continue to be directed to our address given below.

Respectfully submitted,

Jeffrey M. Connor Attorney for Applicants Registration No.: 57,409

FITZPATRICK, CELLA, HARPER & SCINTO 30 Rockefeller Plaza New York, New York 10112-3800 Facsimile: (212) 218-2200

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PATENT COOPERATION TREATY

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference CFO18213WO	FOR FURTHER ACTION	See item 4 below	
International application No. PCT/JP2004/009273	International filing date (day/month/year) 24 June 2004 (24.06.2004)	Priority date (day/month/year) 25 June 2003 (25.06.2003)	
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237		·	
Applicant CANON KABUSHIKI KAISHA			

1.	This international preliminary re International Searching Authorit	eport on patentability (Chapter I) is issued by the International Bureau on behalf of the ty under Rule 44 bis. 1(a).	
2.	This REPORT consists of a total of 7 sheets, including this cover sheet.		
		ence to the written opinion of the International Searching Authority should be read as a reference report on patentability (Chapter I) instead.	
3.	This report contains indications	relating to the following items:	
	Box No. I	Basis of the report	
	Box No. II	Priority	
	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability	
	Box No. IV	Lack of unity of invention	
	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement	
	Box No. VI	Certain documents cited	
	Box No. VII	Certain defects in the international application	
	Box No. VIII	Certain observations on the international application	
4.		mmunicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but nakes an express request under Article 23(2), before the expiration of 30 months from the priority	

•	Date of issuance of this report 03 January 2006 (03.01.2006)
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer Masashi Honda
Facsimile No. +41 22 740 14 35	Telephone No. +41 22 338 70 10

PATENT COOPERATION TREATY

From the INTERNATIONAL SE	EARCHING AUTH	HORITY		
To:	· ·	R	ECTO 24 NOV 201	[№] PCT
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see for	m PCT/ISA/220			TEN OPINION OF THE
			INTERNATIO	NAL SEARCHING AUTHORIT
			(1	PCT Rule 43 <i>bis.</i> 1)
			Date of mailing	
				e form PCT/ISA/210 (second sheet)
Applicant's or agent's fi	ile reference		FOR FURTHER	AOTION
see form PCT/ISA/		·	See paragraph 2 belo	
International application		International filing date (d	lay/month/year)	Priority date (day/month/year)
PCT/JP2004/00927		24.06.2004		25.06.2003
International Patent Cla	ssification (IPC) or	both national classification a	and IPC	
C08F297/00, C09D)153/00	·	Λ	
Applicant				
CANON KABUSHII	KI KAISHA			
1. This opinion of	ontains indicatio	ons relating to the follow	wing items:	
☑ Box No. I	Basis of the opi			:
Box No. II	Priority	anoti .		
☐ Box No. III	_	ent of opinion with recar	d to novelly inventive	e step and industrial applicability
☑ Box No. IV	Lack of unity of	invention	d to moverty, investave	step and industrial applicability
☑ Box No. V	Reasoned state		(a)(i) with regard to n	novelty, inventive step or industrial
Box No. VI	Certain docume	nts cited	supporting adon attace	ment
☐ Box No. VII		in the international applic	cation	•
☐ Box No. VIII	Certain observa	tions on the international	application	
2. FURTHER ACTI				
If a demand for it	nternational profin	ninna avamination to		
written opinion of	the International	Preliminary Examining A	de, this opinion will u authority ("IPEA"). Ho	usually be considered to be a swever, this does not apply where
International Bure	eau under Rule 60	other than this one to be	e the IPEA and the ch	owever, this does not apply where thosen IPEA has notifed the process of the process of the control of the cont
will not be so con	sidered.	stroiotol aige aigen obu	nons of this internauc	onal Searching Authority
If this opinion is,	as provided above	e, considered to be a writ	tten oninion of the IP	EA, the applicant is invited to
months from the c	date of mailing of	ogether, where appropris	ate, with amendment	EA, the applicant is invited to is, before the expiration of three f22 months from the priority date,
•				22 months from the priority date,
For further options	s, see Form PCT/	1SA/220.	•	
. For further details	, see notes to Fo	rm PCT/ISA/220.		
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Name and mailing address of the ISA:

Authorized Officer

<u>)))</u>

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Wirth, M

Telephone No. +49 89 2399-8595



WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/JP2004/009273

Day Mark 1
Box No. I Basis of the opinion
 With regard to the language, this opinion has been established on the basis of the international application in the language in which it was field, unless otherwise indicated under this item.
This opinion has been established on the basis of a translation from the original language into the following language , which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).
With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
a. type of material:
☐ a sequence listing
☐ table(s) related to the sequence listing
b. format of material:
in written format
☐ in computer readable form
c. time of filing/furnishing:
☐ contained in the international application as filed.
☐ filed together with the international application in computer readable form.
furnished subsequently to this Authority for the purposes of search.
3. In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional appropriate, were furnished.
4. Additional comments:

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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/JP2004/009273

Box No. II Priority
1. The following document has not been furnished:
translation of the earlier application whose priority has been claimed (Rule 43bis.1 and 66.7(b)).
Consequently it has not been possible to consider the validity of the priority claim. This opinion has nevertheless been established on the assumption that the relevant date is the claimed priority date.
2. This opinion has been established as if no priority had been claimed due to the fact that the priority claim has been found invalid (Rules 43bis.1 and 64.1). Thus for the purposes of this opinion, the international filing date indicated above is considered to be the relevant date.
3. Additional observations, if necessary:
Box No. IV Lack of unity of invention
1. In response to the invitation (Form PCT/ISA/206) to pay additional fees, the applicant has:
paid additional fees.
paid additional fees under protest.
not paid additional fees.
This Authority found that the requirement of unity of invention is not complied with and chose not to invite the applicant to pay additional fees.
This Authority considers that the requirement of unity of invention in accordance with Rule 13.1, 13.2 and 13.3 is
□ complied with
□ not complied with for the following reasons:
see separate sheet
Consequently, this report has been established in respect as the salls.
Consequently, this report has been established in respect of the following parts of the international application:
☐ the parts relating to claims Nos.

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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/JP2004/009273

Box No. V Reasoned statement under Rule 43bls.1(a)(l) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

No: Claims

1-12

Inventive step (IS)

Yes: Claims

No: Claims

1-12

Industrial applicability (IA)

Yes: Claims

1-12

No: Claims

2. Citations and explanations

see separate sheet

Box No. VI Certain documents cited

- 1. Certain published documents (Rules 43bis.1 and 70.10) and /or
- 2. Non-written disclosures (Rules 43*bis*.1 and 70.9) see form 210

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MARUYAMA TOMOKO (JP)) 29 July 2004 (2004-07-29)

D5: EP-A-0 670 222 (CANON KK) 6 September 1995 (1995-09-06)
D6: EP-A-0 819 538 (CANON KK) 21 January 1998 (1998-01-21)
D7: EP-A-1 243 624 (CANON KK) 25 September 2002 (2002-09-25)

- 2. The hydration temperature is not a parameter usually used in the state of the art to define block copolymers. If a piece of state of the art fulfills all the other features of claim 1, this feature will also be considered fulfilled unless the applicant proves the contrary or gives convincing arguments.
- 3. D1 (see passages cited in the search report) discloses a triblock polymer comprising a triethylene glycol chain and comprising a first block having hydrophobicity (phenyl ethyl methacrylate), a block having ionic property (methacrylic acid) and a dimethylaminoethyl methacrylate/ethoxy triethylene glycol methacrylate block. The hydration temperature of this last block is not specified. However, for the reasons stated above, claim 1 is not considered novel. Should novelty be established, inventive step is also questionable since it is not clear what the contribution of this feature is for the solution of the technical problem stated on page 3. Indeed, comparative examples in which the hydration temperature is under 70°C seem also to lead to stable dispersions.

 The dependant claims do not seem to contain any feature which, in combination with claim 1, would render the claimed subject-matter novel/inventive.
- 4. The application apparatus and the head kit claimed in claims 11 and 12 are standard in the field of ink jet printers as shown in documents D5-D7 (see passages cited in the search report.
 It is also noted that the printer used in the examples (Canon BJF800) also anticipates these claims.

Re. Item VI

D2-D4 are intermediate documents in which MOVE is used in the second block.

